Seat No.	

S.E. (Computer Science and Engineering) (Part - II) (Semester - IV) (Revised) Examination, November- 2019
COMPUTER NETWORKS
Sub. Code : 63532

Day and Date : Thursday, 14- 11 - 2019 **Total Marks : 50**

Time : 2.30 p.m. to 4.30 p.m.

Instructions :
1) **Solve any Two questions from each Section.**
2) **Figures to the right indicate full marks.**
3) **Assume suitable data whenever necessary.**

SECTION-I

Q1) a) With neat diagram explain optimality principle. [6]

b) Explain link state routing with diagram. [7]

Q2) a) Change the following IPv4 addresses from binary notation to dotted-decimal notation.

i) 10000001 00001011 00001011 11101111

ii) 11000001 10000011 00011011 11111111 [4]

b) Change the following IPv4 addresses from dotted-decimal notation to binary notation. [4]

i) 111. 56. 45. 78

ii) 221. 34. 7. 82

c) Write a short note on address blocks in classless addressing. [4]

Q3) a) Explain Congestion Control in Virtual-Circuit Subnets. [6]

b) Write a short note on any ONE of the following. [6]

i) RSVP- The Resource reservation Protocol.

ii) Expedited Forwarding.

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SECTION-II

Q4) a) List the states used in TCP connection management finite state machine. [7]

b) Write a short note on UDP header. [6]

Q5) a) Draw the diagram for the A portion of the Internet domain name space. Explain DNS name space. [6]

b) Describe Terminal Network (Telnet) in detail. [6]

Q6) a) Explain the substitution cipher encryption algorithms. [6]

b) Write a short note on (any one) [6]

i) RSA

ii) MIME

iii) Transposition Cipher.

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